Christchurch Borough

2011 Census Based Projection

District Population Projections: Population projections up to 2031.

Variant: Trend, Census based

Constraint: There are no population or household constraints used.

Assumptions: 2001 and 2011 Census based. Official mid-year estimates were not included as they are due to be re-estimated following 2011 census results. Alternatively actual net dwelling completions between 2002 and 2010 by district are included as a basis for levels of population growth during 2001 and 2011. Assumptions for future births, deaths and migration are based on assumptions produced by the ONS for 2010-based sub-national population projections (SNPP). Components of change data between 2001 and 2010 are consistent with the historical data for births and deaths from 2001 to 2010, whilst migration numbers are experimental. This approach of projection assumes that population change is guided by the levels of births, deaths and migration input in the model, and these assumptions meet with the expectations as calculated by the ONS.

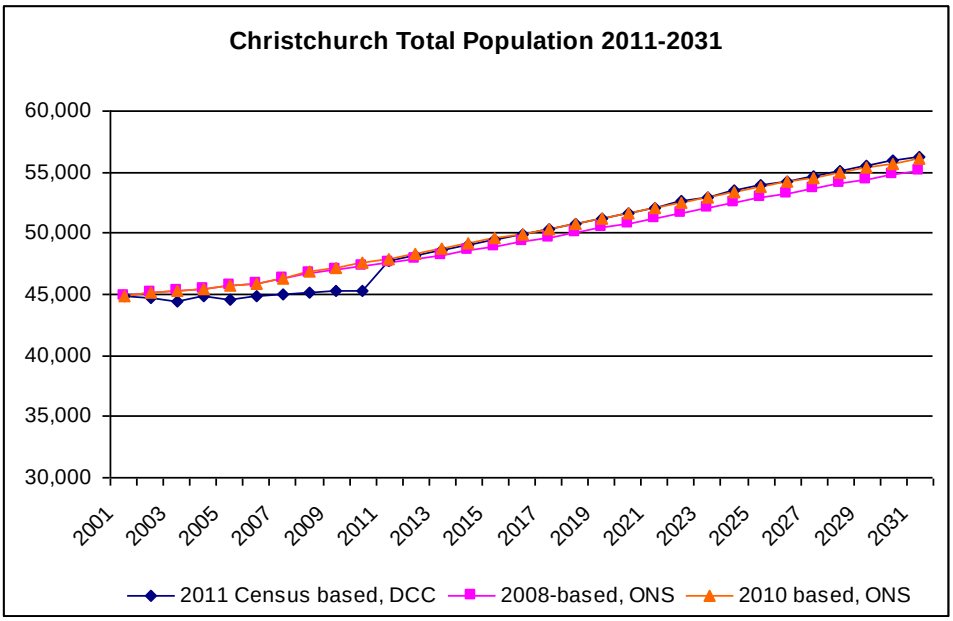
Population Projections, 2011 Census based:

	2011	2016	2021	2026	2031	% growth 2011-2031
Christchurch	47,800	49,900	52,100	54,300	56,300	17.8

Note: numbers have been rounded to the nearest 100 and may not sum because of this.

The table above shows the change in total population from 2011 to 2031.

Christchurch:
Christchurch is expected to show a growth in population of 17.8% between 2011 and 2031, an increase of 8,500 persons. The chart below shows the different levels of growth expected in comparison to the 2008-based and 2010-based SNPP from ONS.



The chart shows that the 2011 census based projection results in a slightly higher population than that projected by ONS in their 2008-based and 2010-based scenarios. The chart

indicates that in the 2011 census based projection there is a slower growth in population in the pre-projection period than estimated by ONS, increasing in population approximately 0.02% between 2001 and 2008 in comparison to the 0.5% estimated by ONS. The chart indicates a jump in population between 2010 and 2011, however these statistics are experimental as mid-year estimates have yet to be revised following the initial census release. From 2011 onwards it is projected that the population in the 2011 census projections will increase annually by 0.8%, similar to the ONS based projections (2008-based projects 0.7% annual increase, 2010-based projects 0.8% annual increase).

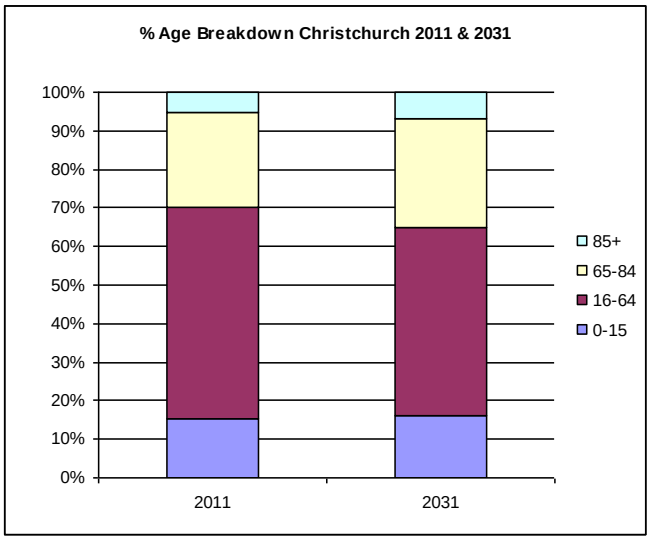
The table below shows the change in population across 3 broad age groups for Christchurch.

		2011	2016	2021	2026	2031	% growth 2011-2031
Christchurch	0-15	7,400	8,000	8,700	9,400	9,100	22.2
Christchurch	16-64	26,200	26,300	26,900	27,200	27,500	5.0
Christchurch	65+	14,200	15,600	16,500	17,800	19,700	38.9
Christchurch	Total	47,800	49,900	52,100	54,300	56,300	17.8

Note: numbers have been rounded to the nearest 100 and may not sum because of this.

From 2011-2031 it is projected that the number of adults aged 65+ will increase by 39%. The largest increases are expected in adults 85+, increasing 56% from 2,500 in 2011 to 3,900 in 2031, this is due to expected gains in life expectancy. The working age population (16-64) is expected to increase by 5% and the younger population (0-15's) is expected to increase 22%. This bucks the usual trend of projected losses in younger age groups, due to increases in fertility prior to the projection, which are then carried forward into a growing younger and working age population.

The chart below shows the proportional changes in age distribution between 2011 and 2031, by 2031 it is projected that 35% of the population will be over 65 in comparison to 30% in 2011. The proportion of 0-15 year olds in the population is projected to remain relatively constant at approximately 16% in both 2011 and 2031. Whilst Christchurch is still projected to have a top heavy older population, the changing structure of the population is not as extreme as in some areas of the county due to Christchurch's already older population and the expected increases in fertility to counterbalance this.



District Household Projections: Household projections up to 2031, in line with the above population projections.

Assumptions: Household projections are produced by applying projected household formation rates from the 2008-based household projections (ONS/ CLG) to the above population projections. The underlying assumptions are demographic trend based, they provide household levels and structures that would result if the assumptions based on previous demographic trends in the above population projections were to be realised.

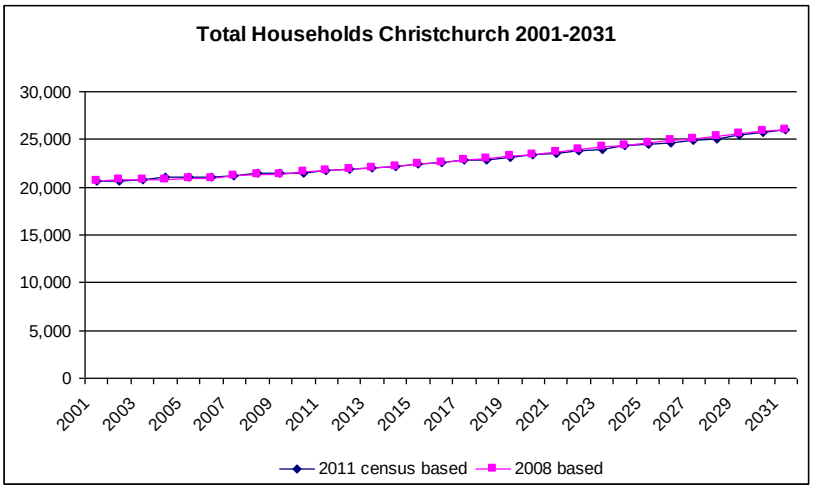
Household Projections, 2011 Census based:

	2011	2016	2021	2026	2031	% GROWTH 2011-2031
Christchurch	21,700	22,600	23,600	24,700	26,000	19.8

Note: numbers have been rounded to the nearest 100 and may not sum because of this.

The table above shows the change in total households from 2011 to 2031.

Christchurch:
Christchurch is expected to see a growth in households of 19.8% between 2011 and 2031. The chart below shows the difference in household growth between these projections and the 2008-based household projections (still the latest set available).



The chart shows that the level of growth is approximately the same as in the 2008 based projections, which project an increase of 19.9% between 2011 and 2031. The resulting household size in 2031 in the 2008-based projection from ONS is 2.12, slightly lower than the household size calculated from the 2011 census based projection of 2.17 in 2031. Therefore household size is projected to be larger than previously projected.

The table below shows the breakdown of household (HH) types expected in Christchurch between these years.

Household (HH) type	2011	2016	2021	2026	2031	% GROWTH 2011-2031	% of Households 2011	% of Households 2031
One person HH	7,300	7,700	8,200	8,800	9,400	28.6	33.8	36.2
Couple and no others	7,800	8,200	8,600	9,200	9,700	24.8	36.0	37.5
Couple with 1 or more dependents	3,000	3,100	3,100	3,100	3,000	0.7	13.8	11.6
Lone parent with 1 or more dependents	1,200	1,400	1,500	1,600	1,700	44.7	5.4	6.6
All other HH types	2,400	2,300	2,200	2,100	2,100	-11.8	11.0	8.1
Total	21,700	22,600	23,600	24,700	26,000	19.8	100.0	100.0

Note: numbers have been rounded to the nearest 100 and may not sum because of this

The largest increase is expected to occur in lone parent households, increasing 44.7% over the 20 years. Lone parent households still remain a low proportion of the total number of households, at 6.6% of the total proportion in 2031. The largest proportion of households in 2031 is projected to be couple households with no others (37.5%) and one person households (36.2%). These are reflective of the older age structure and expected social changes.

METHODOLOGY, SOURCES & NOTES

Methodology:

Projections have been produced using the PopGroup model referenced below. This incorporates a cohort component methodology for its population projection model. This is a standard approach to population projection applied by most national statistical agencies such as the ONS. Population in a base period has been projected forward taking account of the impact of births, deaths and migration (internal and international migration). The assumptions about future fertility, mortality and migration trends for this projection have largely been taken from the ONS assumptions in their 2010-based SNPP (released March, 2012), please see source list below for full details. These are viewed as the best choice of data currently available.

Notes regarding data:

Population & Household projections have been produced based upon demographic assumptions as outlined in the report. It is only if these assumptions were to be met that the projections would be realised.

Data is experimental and not for public release in its raw format.

Whilst the projections are produced down to unit level with comprehensive components of change it should not be assumed that they are accurate at this detailed level. They are provided for guidance on the elements influencing population change in the projection period, and to enable further calculation and analysis. Where possible, data should be aggregated to at least five year age groups and rounded to the nearest 100 for dissemination or publication purposes.

Sources:

- Population Base: 2001 and 2011 Census data (ONS).
  Mid year estimates between 2002-2010 are experimental and based upon expected population growth in line with dwelling completions from 2002-2010 (DCC)
- Fertility: Age-specific fertility rates by district from ONS 2010-based SNPP
  Births by district 2001-2010 (ONS)
  Fertility Differentials reflect GAD 2010-based projections (ONS)
- Mortality: Age-specific mortality rates by district from ONS 2010-based SNPP
  Deaths by district 2001-2010 (ONS)
  Mortality Differentials reflect GAD 2010-based projections (ONS)
- UK Migration: In & Out migration district schedule from ONS 2010-based SNPP (ONS)
  In & Out migration 2002-2010 are experimental and based upon population growth resulting from births/deaths and estimated total population.
  UK migration differentials reflect GAD 2010-based projections (ONS)

- Overseas Migration: Standard schedule from ONS 2010 SNPP (ONS)
  Numbers of migrants from 2010-based SNPP (ONS)
  Overseas migration differentials reflect GAD 2010-based projections (ONS)
- Special Populations: Taken from 2001 Census (ONS/ DCC)
- Household vacancies: % of second homes/ vacant homes/ holiday homes (2001 Census and 2011 Council Tax data, DCC)
- Headship Rates: Headship rate for each combination of age, sex & type from 2008-based household projections (ONS)
- Population not in households: number of persons not in households for each combination of age, sex & type from 2008-based household projections (ONS)

Projection Model:

Population and Household projections are generated using PopGroup v3.1 Derived Forecast Model from Edge Analytics.

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